

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) An air treatment system for a vehicle, comprising:

a ducting system configured to direct a current of air which has at least one fresh air inlet opening that communicates with surroundings of the vehicle and/or at least one inlet opening for recirculated air that communicates with an interior of the vehicle which is to be air-conditioned, and at least one outlet opening that communicates with the vehicle interior,

an oxidation device which functions electrically and breaks down odorous substances and/or pollutants contained in the current of air by oxidation,

wherein the oxidation device comprises at least one ozone generator for generating ozone in the current of air, and

at least one catalyzer configured to break down the ozone contained in the current of air arranged downstream of the ozone generator,

wherein the air treatment system is configured to be operated in a purification mode in which the ozone generator is active and enriches the current of air with ozone, wherein the current of air in the purification mode is directed so that the current of air reaching the at least one outlet opening first flows through the catalyzer,

wherein the ozone generator is a first ozone generator that is arranged upstream of the catalyzer and is active in the purification mode, wherein a second ozone generator is also provided which is arranged downstream of the catalyzer and is active in a sterilization mode,

wherein the air treatment system is configured to be operated in the sterilization mode such that the second ozone generator is active and enriches the current of air with ozone,

wherein a first baffle device is provided, which in the sterilization mode directs the current of air so that no ozone-charged air enters the vehicle interior through the at least one outlet opening.

2. (Canceled)

3. (Previously Presented) The air treatment system as claimed in claim 1, wherein the air treatment system is configured so that in operation the ozone generator only generates just enough ozone to ensure that, even if there are no odorous substances or pollutants in the current of air or no microorganisms present on surfaces exposed to the current of air,

wherein surfaces on which the current of air impinges are sufficiently large to bring about a breakdown of the ozone thereon which will reduce an ozone content of the current of air to or below a predefined limit before the current of air enters the vehicle interior through the at least one outlet opening.

4. (Canceled)

5. (Previously Presented) The air treatment system as claimed in claim 1, wherein the catalyzer is a sorption catalyzer.

6. (Currently Amended) The air treatment system as claimed in claim 1 [[4]], wherein in the purification mode the current of air is directed so that the entire current of air reaching the at least one outlet opening first flows through the catalyzer.

Claims 7-9. (Canceled)

10. (Previously Presented) The air treatment system as claimed in claim 11, further comprising a second baffle device that in the sterilization mode is configured to direct the current of air so that the current of air completely or substantially bypasses the catalyzer.

11. (Previously Presented) An air treatment system for a vehicle, comprising:

a ducting system configured to direct a current of air which has at least one fresh air inlet opening that communicates with surroundings of the vehicle and/or at least one inlet opening for recirculated air that communicates with an interior of the vehicle which is to be air-conditioned, and at least one outlet opening that communicates with the vehicle interior,

an oxidation device which functions electrically and breaks down odorous substances and/or pollutants contained in the current of air by oxidation,

wherein the oxidation device comprises at least one ozone generator for generating ozone in the current of air, and

at least one catalyzer configured to break down the ozone contained in the current of air arranged downstream of the ozone generator,

wherein the air treatment system is configured to be operated in a purification mode in which the ozone generator is active and enriches the current of air with ozone, wherein the current of air in the purification mode is directed so that the current of air reaching the at least one outlet opening first flows through the catalyzer,

wherein a common ozone generator is provided for both the purification mode and a sterilization mode, wherein the catalyzer can be deactivated for the sterilization mode,

wherein the catalyzer is configured to be displaced between an active position assigned to the purification mode in which the catalyzer projects into a flow path of the ozone-enriched current of air and through which the ozone-enriched current of air flows, and a passive position assigned to the sterilization mode in which the catalyzer is completely or substantially removed from the flow path and is entirely or substantially bypassed by the ozone-enriched current of air.

12. (Previously Presented) The air treatment system as claimed in claim 1, wherein the first baffle device includes a switch element which is arranged upstream of a distributor chamber from which the conditioned current of air is directed to the at least one outlet opening, wherein in the sterilization mode the switch element is configured to shut off air supply to the distributor chamber.

13. (Previously Presented) The air treatment system as claimed in claim 1, wherein the first baffle device includes a separate switch element for each outlet opening, wherein in the sterilization mode the switch elements are configured to shut off air supply to a the respective outlet opening.

14. (Previously Presented) The air treatment system as claimed in claim 12, wherein in the sterilization mode the switch element is configured to open an outlet air path which directs the current of air into the surroundings of the vehicle and/or returns it into the ducting system

upstream of a blower, the switch element is configured to close the outlet air path during normal operation of the air treatment system.

15. (Previously Presented) The air treatment system as claimed in claim 1, wherein the oxidation device comprises at least one photocatalyzer device, wherein the photocatalyzer device comprises at least one UV-emitter and at least one catalyzer in the form of a photocatalyzer and causes UV radiation to act upon at least one photocatalyzer in order to oxidize odorous substances and/or pollutants.

16. (Previously Presented) The air treatment system as claimed in claim 15, wherein the photocatalyzer is an oxidation catalyzer.

17. (Currently Amended) The air treatment system as claimed in claim 1, wherein ~~characterized in that~~ the catalyzer is integrated into an existing component of the air treatment system, wherein the component is exposed to the current of air and/or has the current of air flowing through it.

18. (Previously Presented) The air treatment system as claimed in claim 17, wherein the catalyzer is integrated into a blower configured to generate the current of air, and/or into a heating device configured to heat the current of air, and/or into the cooling device configured to cool the current of air and/or into at least one wall section of the ducting system.

19. (Previously Presented) The air treatment system as claimed in claim 17, wherein the integration of the catalyzer into the component is configured such that a surface of the component is exposed to the current of air and is coated with a suitable catalytic material and/or, such that the component is composed of a suitable catalytic material at least in an area exposed to the current of air.

20. (Previously Presented) The air treatment system as claimed in claim 1, wherein the catalyzer is arranged upstream of a distributor chamber from which an air-conditioned current of air is directed to the at least one outlet opening.

21. (Previously Presented) The air treatment system of claim 1, wherein the air treatment system is configured to break down odorous substances and pollutants by oxidation in the current of air that is directed from the air treatment system into the interior of the vehicle.

22. (Previously Presented) The air treatment system of claim 1, wherein the air treatment system is configured to sterilize components of the air treatment system which are exposed to a current of air, wherein in normal operation the current of air is directed from the air treatment system into the interior of the vehicle.

23. (Canceled)

24. (Canceled)

25. (Previously Presented) The air treatment system as claimed in claim 1, wherein the oxidation device is an electrical oxidation device.

26. (Previously Presented) The air treatment system as claimed in claim 11, wherein in the purification mode the current of air is directed so that the entire current of air reaching the at least one outlet opening first flows through the catalyzer.